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MEMORANDUM TO: NRC LICENSE 05-00682-05 DOCKET FILE

FROM: *WFF* William Floyd, Manager
08/09/01 Radiation Protection Program
Radiation Control Bureau
New Mexico Environmental Department

SUBJECT: TERMINATED LICENSE REVIEW

On July 9, 2001, the New Mexico Environmental Department concluded its review of a terminated sealed source license previously issued to the Ideal Cement Company (ICC) of Tijeras, New Mexico. Details of the review are provided in the attachment to this Memorandum.

In summary, ICC was licensed by the U.S. Atomic Energy Commission (AEC) to possess cesium-137 in sealed source form for use in fixed gauges. The license was issued during June 1959 and expired during May 1965. The docket file did not provide disposition information for the sources that were possessed by the licensee. As a result, the NRC and the New Mexico Environmental Department conducted independent reviews of this docket file.

Based on the records provided by the NRC and State of New Mexico, the State has determined that the radioactive material possessed by the licensee under AEC License 05-00682-05 was disposed or transferred to other licensees between 1977-1983. Therefore, this concludes the New Mexico Environmental Department's review of this terminated sealed source file.

Docket No.: None
License No.: 30-00682-05

Attachment: Terminated License Status Report

cc w/attachment:
Dwight D. Chamberlain, Director
Division of Nuclear Materials Safety
611 Ryan Plaza Drive, Suite 400
Arlington, Texas 76011

David A. Butcher, Director
Laboratory and Radiation Services Division
Colorado Dept of Public Health and Environment
8100 Lowry Boulevard
Denver, Colorado 80230-6928

ATTACHMENT

Terminated License Status Report

Final ORNL Score: 1

Docket No. None

License No. 05-00682-05

Licensee Name: **Ideal Cement Company**

Mailing Address: 821 17th Street
Denver, Colorado

Site Address: Tijeras, New Mexico

Contact: Bill Floyd, Program Manager
Radiation Licensing and Registration Section
New Mexico Environmental Department

Status Summary:

Ideal Cement Company (ICC) applied for a byproduct material license on June 8, 1959, to possess one 50-millicurie cobalt-60 sealed source for use in a fixed gauge at the Boettcher, Colorado, cement plant. The U.S. Atomic Energy Commission (AEC) issued Byproduct Material License 05-00682-05 to ICC on June 24, 1959.

By letters dated April 14 and April 26, 1960, the licensee applied for a license revision to possess two cesium-137 sealed sources at the Tijeras, New Mexico, cement plant. The first source was a 500-millicurie source to be used in an Industrial Nucleonics source holder, while the second source was a 300-millicurie source to be used in an Ohmart source holder. During June 1960, the AEC revised License 05-00682-05 by adding the two cesium-137 sources and the Tijeras location.

By letter dated April 4, 1961, the licensee requested that the AEC issue separate licenses for the two facilities. License 05-00682-05 was revised on May 8, 1961, to include only the New Mexico site. AEC License 05-00682-06 (and later 05-00682-10) was issued for possession of radioactive material at the Boettcher site.

A third cesium-137 sealed source was added to the license during July 1963. This source was a 100-millicurie source to be installed in an Ohmart source holder. A fourth cesium-137 source was added to the license during November 1963. This source was also a 100-millicurie source to be installed in an Ohmart source holder.

The licensee's 1965 renewal application was apparently less than timely because License 05-00682-05 expired on May 31, 1965. Records indicate that License 05-00682-09 was subsequently issued to ICC for possession of radioactive material at the Tijeras plant.

Oak Ridge National Laboratory (ORNL) recently reviewed this license file and noted that radioactive material disposition information was not provided in the file. Accordingly, the file was referred by the NRC to the New Mexico Environmental Department for an independent, followup review because New Mexico became an Agreement State on May 1, 1974.

According to New Mexico Environmental Department records, the 500-millicurie source and the 300-millicurie source were disposed at Texas Nuclear on July 8, 1983. The third source, a 100-millicurie source, was sent to the manufacturer for disposal on October 29, 1977. The fourth source, also a 100-millicurie source, was transferred to Hazen Research Inc. of Golden, Colorado, on October 23, 1977.

In summary, the New Mexico Environmental Department recommends closure of this terminated sealed source file. The radioactive material that was possessed under AEC License 05-00682-05 at the Tijeras cement plant was disposed or transferred to other entities during 1977-1983.